

*"Minority business enterprises are encouraged to respond to this solicitation notice."*

PROJECT MANUAL

**Install Cable Fence, Install Culvert Pipe, New Gravel Parking Lot, Raze Well, Install Gates  
Brown Branch Wildlife Management Area  
161 Ben Lee Farm Lane  
Sudlersville, Queen Anne's County, Maryland 21668**

PROJECT # EC22-09521-24  
BPM029790

MAINTENANCE CONTRACT

STATE OF MARYLAND  
DEPARTMENT OF NATURAL RESOURCES  
ENGINEERING & CONSTRUCTION

DATE: May 5, 2022

DATE BIDS DUE: **June 7, 2022,**

TIME: **2:00 P.M.**

**BIDS FOR THIS SOLICITATION ARE BEING ACCEPTED SOLELY ONLINE THROUGH**  
<https://emma.maryland.gov>

**NOTE:** You are strongly urged to attend the pre-bid site visit in order to understand the scope of work. Those attending shall meet on **May 19, 2022, at 10:00 a.m., Browns Branch Wildlife Management Area, 161 Ben Lee Farm Lane, Sudlersville, Queen Anne's County, Maryland 21668.** If you cannot attend or need directions to the pre-bid visit or for clarification of the specifications please contact:

**PROJECT MANAGER: Ramiz Alobaidi**

**443-454-8867**

*Name and address of Procurement Officer:*

*Perry Otwell  
Dept. of Natural Resources  
Tawes State Office Building, D-3  
Annapolis, Maryland 21401*

## I. DETAILED SPECIFICATIONS

### A. SCOPE:

1. This project consists of the Contractor providing all labor, equipment, materials, supplies, insurance, etc. necessary to create a new gravel parking lot, raze well, install gates, install cable fence, and install new culvert pipe at Browns Branch WMA, 161 Ben Lee Farm Ln, Sudlersville, MD 21668
2. This project includes but is not limited to the following:
  - a. Remove and dispose of two old wooden gates, one old metal gate and four posts.
  - b. Collapse/abandoned one old well at entrance #2
  - c. Install three (3) metal gates and three (3) gate receivers at entrance #1, #2 and #3.
  - d. Install cable fence approx. 1,300 LF at entrance #1
  - e. Install cable fence approx. 180 LF at entrance #2.
  - f. Excavate the expanded parking lot at entrance #1 to a depth of 6" below grade, approximately 1,500 SF.
  - g. Excavate the parking lot at entrance #2 to a depth of 6" below grade, approximately 3,600 SF.
  - h. Compact newly exposed soil thoroughly using a mechanical vibrating roller and then install geotextile fabric over all exposed soil, approximately 5,100 SF. No soil shall be left uncovered overnight if inclement weather is expected.
  - i. Install 2" of Stone Base to the entire parking area, approximately 25 tons, and compact using a mechanical vibrating roller. Stone Base will be calculated using **Unit Price #1**.
  - j. Regrade and compact the existing stone base at the parking area at entrance #1 and entrance #3, approximately 8,000 SF.
  - k. Install 4" of CR-6 stone with fines to the entire parking area (entrance #1, #2 and #3), approximately 100 tons, and compact using a mechanical vibrating roller. CR-6 stone will be calculated using **Unit Price #2**.

- I. Grade and stabilize any disturbed soil using the specified seed and straw.

**NOTE:** The accuracy of all applicable dimensions and quantities associated with the work is the responsibility of the Contractor. All information is to be confirmed to the Contractor's satisfaction prior to bidding. The State will not be held responsible for the Contractor's failure to do so.

**B. PRE-BID CONFERENCE:**

1. Each Bidder is encouraged to attend the scheduled pre-bid conference/site visit, although it is not mandatory. See COMAR 21.11.03.09C (2) (e) for additional information.

**C. QUALIFICATIONS OF THE CONTRACTOR:**

1. The Contractor shall be licensed in the State of Maryland as a General Contractor to perform work associated with this project.
2. The Contractor shall have a minimum of three (3) years of experience performing similar construction projects.
3. Upon request, the Contractor shall supply to the DNR Project manager a list of other similar projects which have been completed by the Contractor.
4. Licensed plumber/well driller required to collapse the well. Approved for working in Queen Anne's County.

**D. SITE INSPECTION:**

1. It is suggested that the Contractor visit the job site and familiarize himself/herself with the conditions under which the work will be performed. No allowance will be made for errors on the Contractor's part for failure to take into account any conditions or circumstances existing at the site which might affect the specified work.
2. Please coordinate any site visit other than the pre-bid with the project manager by calling 443-454-8867.

**E. SCHEDULE OF WORK:**

1. All work shall be coordinated with the Park Manager and DNR Project Engineer at the work initiation meeting.

2. Work shall be accomplished during normal park hours of 8:00 a.m. to 4:30 p.m., Monday through Friday, unless permission is given in writing to do otherwise.
3. Work shall be performed and completed within 60 calendar days of Notice to Proceed.

**F. STANDARDS AND CODES:**

1. All work shall be performed in a top-quality workmanship manner in accordance with the standards of the trade.
2. The Contractor shall comply with OSHA (Occupational Safety and Health Administration) and MOSHA (Maryland Occupational Safety and Health Administration) regulations regarding construction safety and health standards throughout the duration of the Project.
3. All work shall be performed in accordance with the applicable code requirements and standards as defined by the Maryland Code Administration "Maryland Building Performance Standards" (MBPS) and the latest editions of:
  - International Building Code (IBC)
  - International Residential Code (IRC)
  - International Plumbing Code (IPC)
  - International Mechanical Code (IMC)
  - National Electric Code (NEC)
  - International Energy Conservation Code (IECC)
  - Maryland Accessibility Code (MAC)
  - National Fire Protection Association Code (NFPA)
  - Maryland Department of Transportation-State Highway Administration's (SHA) "Standards Specifications for Construction and Materials"

**G. MATERIALS AND SUPPLIES:**

1. General:
  - a. All materials shall be as specified or approved equal by the DNR Project Engineer. In the event the Contractor chooses to substitute materials other than those specified, the Contractor shall submit to the DNR Project Engineer all pertinent data to determine the or-equal status. This material shall be submitted to the DNR Project Engineer a minimum of ten (10) days prior to the bid opening. The DNR Project Manager shall notify the Contractor within five (5) days as to the or-equal status.

- b. All materials shall be new and where applicable shall be delivered to the job site with labels intact and legible.
- c. The Contractor shall be responsible for the coordination, off-loading and proper storage of all materials and supplies up until the time of the final inspection.
- d. Materials shall be stored in a safe area, out of the way of traffic. Storage site location shall be approved by the Facility Manager prior to the storage of any materials on site. All materials and supplies shall be stored up off of the ground surface and protected from weather with a waterproof covering. Any special storage instruction required by the material manufacturer shall be performed by the Contractor as if specified herein.
- e. Any materials that have not been specifically mentioned, but are necessary for the complete, safe and satisfactory completion of the project shall be provided by the Contractor as if specified herein.

2. Specifics:

- a. Gates: Shall be Swing Sentinel 16 feet (4.88 m) Manual Single Leaf Swing Barrier Gate Arm (In-Ground) - Galvanized - 14010-16 or approved equal.
- b. Gates receivers: Shall be Sentinel Swing Barrier Receiver Post (In-Ground) - 14030R or approved equal.
- c. Concrete for the gate post footers: Shall be SHA mix #2, 3,000 PSI air entrained or approved equal.
- d. Cable fence: shall be PRO Strand 3/8", 7x19, Galvanized Cable Reel or approved equal.
- e. Fence posts: shall be 8 inch butt marine piling or pressure treated 6x6 SYP or approved equal.
- f. Surface Gravel: Shall be SHA approved graded aggregate sub-base (CR-6).
- g. Base Stone: Shall be SHA-approved RC-2 gravel. Stones shall average 1.5" to 3" in size.
- h. Filter Cloth: Shall be heavy duty, 16 oz., non-woven polyester fabric with manufacturer recommended biodegradable pins/staples.

- i. Mulch: Shall be wheat or rye straw which is free of noxious weeds or seeds.
- j. Grass Seeds: Shall be MDE Seed Mix #1, #3, or #5 as per Table B-6 on page 35 of MDE Sediment and Storm Water Management Standard 2009.

**H. METHOD OF WORK:**

- 1. General:
  - a. All work shall be as called for in these written specifications.
  - b. The Contractor shall coordinate all work with various trades and material suppliers in order to complete the project expeditiously within the time limits of the contract. The sequence of events shall be left up to the Contractor.
  - c. All work shall be performed in the best and most professional manner possible by mechanics skilled in their respective trades.
  - d. All work shall be performed to minimize disruption to facility operations. It is understood that the Contractor shall maintain accessibility for vehicular and pedestrian traffic throughout the project.
  - e. The Contractor shall provide and install adequate barricades, signs, etc., necessary to insure public safety as approved by the Facility Manager.
  - f. At the end of each day, open ditches shall be properly backfilled and compacted in accordance to applicable sections of these specifications.
  - g. The Contractor shall adhere to OSHA-MOSHA regulations throughout the project to ensure the safety of his/her employees, state employees, and the public.
  - h. The Contractor shall maintain the work site in a safe, neat, and orderly manner throughout the entire project. The Contractor shall take steps to prevent accumulation of debris at the job site.
  - i. Prior to performing any excavation work, the Contractor shall notify Miss Utility to mark all underground utilities. In addition, the

Contractor shall work with an independent Utility Locating Service to locate other park-owned utilities.

2. Specifics:

- a. Remove and dispose two old gates and four (4) posts. One (1) gate and four (4) posts are at the entrance #1 and the second gate at entrance #3.
- b. Properly abandoned old well at the entrance #2.
- c. Install approximately 1,700 LF of one row cable fence at entrance #1 & #2.
  - At entrance #1: cable fence should be installed on the farm side of the drainage swale. **See site diagram #1 ,#2 and #3.**
  - Leave 2 feet pedestrian opening at the left side of the gates.
  - The fence post piles need to be driven into the ground a minimum 3 feet by using vibrating post driver machine.
  - Install the pile/posts every 20 feet. The piles/posts at the corners and at the gates may need to be installed in less than 20 feet.
  - The cable fence should go through the drilled holes in wood pile posts and the cable fence should be only 3 feet above the grade.
  - Cable fences need to be tightened end to end and have tension posts with brackets.
  - Use all hardware needed to install the fence.
- d. Install the gates and gates receivers as written by the manufacturer's instructions. Gates swing to the inside.
  - Gates height 3.5' above the ground
  - Gates post 2.5' below the grade in the concrete footer.
  - Concrete posts footer should be 1.5' diameter and 3' depth.
- e. Excavate the new parking area to a minimum depth of 6" below grade, approximately 1,500 SF at entrance #1 and approximately 3,600 SF at entrance #2.
- f. Grade, compact, and properly prepare the existing sub-base material prior to placement of the filter cloth. Soil shall be compacted with a mechanical tamper or vibrating roller to a minimum of 90% compaction. Compaction shall be as per SHA requirements. Inspection and approval of the properly prepared sub-base is required by DNR Project Manager prior to the placement of base stone. No soil shall be left uncovered overnight if inclement weather is expected.

- g. Install the specified filter fabric. Roll the fabric down the roadway and parking area. Overlap the fabric as recommended by the manufacturer's instructions at a minimum overlap of 12". Overlap the ends of the preceding roll over the top of the next roll in the direction that the gravel will be spread to minimize wrinkles and shoving of the geotextile fabric during the spreading and blading of the gravel. Use pins/staples to secure the fabric along every edge; including overlapping areas.
- h. Install 2" of Stone Base to the entire excavated parking area, approximately 25 tons, and compact using a mechanical vibrating roller. Stone Base will be calculated using **Unit Price #1**.
- i. Install 4" of CR-6 stone with fines to the entire parking area, approximately 100 tons. CR-6 stone will be calculated using **Unit Price #2**.
- j. Grade parking surface using a suitable road grader or dozer with a tilt blade machine until road is crowned.
- k. Compact the entire parking surface using a riding 10-ton vibratory drum roller, minimum.
- l. Grade and stabilize any disturbed soil using the specified seed and straw.
- m. The Contractor shall be responsible to remove all excess materials and debris associated with this project unless otherwise noted in these specifications.

**I. WARRANTY AND GUARANTEE:**

- 1. The Contractor shall guarantee his/her work for a period of two (2) years from the date of acceptance. Any defects found within the warranty period shall be repaired or replaced by the Contractor at no additional cost to the State.

**J. GENERAL REQUIREMENTS:**

- 1. All work shall be coordinated with the Facility Manager and DNR Project Manager during the work initiation meeting.
- 2. Contractor shall complete the project within 60 days of the start date.
- 3. The completed project is subject to the inspection and approval by the Department of Natural Resources.



4. The requirements stated in the latest edition of Department of General Services "General Conditions – Instructions to Bidders for Construction Projects" are hereby made part of these documents.

**K. METHOD OF BIDDING:**

1. See Section V "Alternates and Unit Prices" for additional bidding requirements.
2. All bids shall be submitted online via eMaryland Marketplace Advantage (eMMA) <https://emma.maryland.gov> (NO PAPER BIDS!)
3. On eMaryland Marketplace Advantage opposite "Total Bid", the Contractor shall insert a lump sum bid to complete all work described herein. Bid amount must also coincide on the Bid Form attached and all supporting documents completed to be a full and valid bid.
4. The project will be awarded to the Contractor submitting the lowest Base Bid demonstrating the ability to fulfill the requirement for this project.

**L. METHOD OF PAYMENT:**

1. After satisfactory completion and acceptance of work, the Contractor shall submit an invoice to the DNR Project Engineer for processing and payment.
2. Payments shall be made in accordance with *General Conditions, Terms and Conditions*.

## II. ALTERNATES AND UNIT PRICES

### A. ALTERNATES:

1. None

### B. UNIT PRICES:

1. The Contractor shall insert a cost per ton X an estimated 25 tons to apply new RC-2 Recycled Concrete with fines as directed by the Project Engineer or Inspector; to include purchasing, grading, and compaction in accordance with the specification.
2. The Contractor shall insert a cost per ton X an estimated 100 tons to apply new CR-6 gravel with fines as directed by the Project Engineer or Inspector; to include purchasing, grading, and compaction in accordance with the specifications.

**NOTE:** The Contractor shall incorporate all costs associated with transportation, fuel, maintenance on equipment, employee salary, benefits, overhead, profit, etc., in the Unit Price. Unit Prices will be used to increase/decrease the contract price based on actual quantities installed, in accordance with the Instructions to Bidders for Construction Projects (3.B.3)

### **III. DRAWINGS**

1. The following drawings are attached and should be considered part of these specifications as if specified herein:

1- Site diagram entrance #1

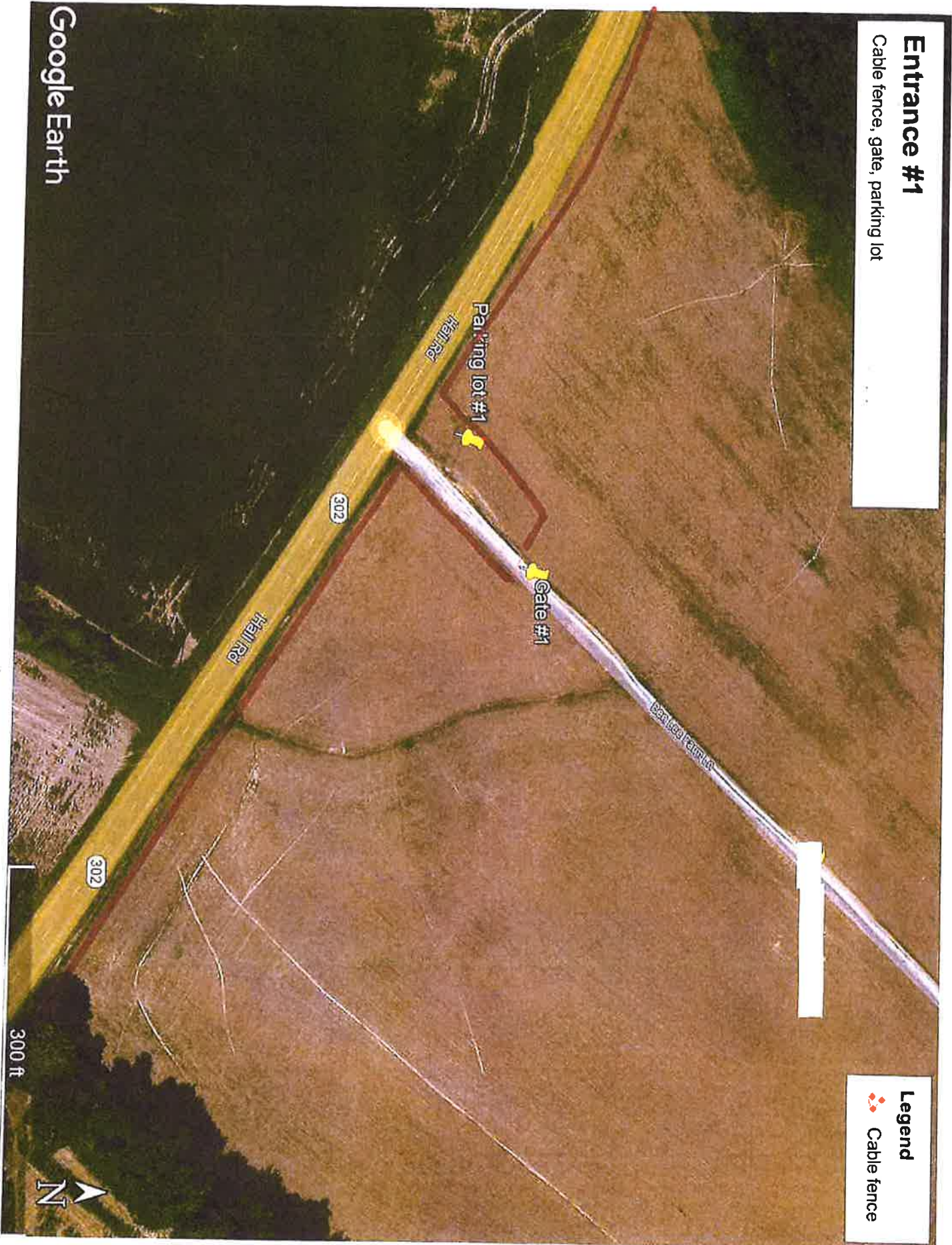
2- Site diagram entrance #2

3- Site diagram entrance #3

## Entrance #1

Cable fence, gate, parking lot

**Legend**  
Cable fence





## Entrance #2

Cable fence, gate, parking lot and the well location.

### Legend

 Cable fence



Google Earth


200 ft



# Entrance #3

Metal gate and parking lot location

## Legend

 Feature 1



Google Earth